AMERICAN RAILROAD JOURNAL,

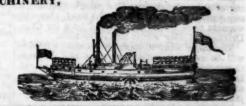
AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACHINERY,

AND MINES.



ESTABLISHED 1831.



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SECOND QUARTO SERIES, Vol. I., No. 17.1

THURSDAY, APRIL 24, 1845.

[WHOLE No. 460, Vol. XVIII.

THE AMERICAN RAILROAD JOURNAL s the only periodical having a general circulation throughout the Union, in which all matters connected with public works can be brought to the notice of all persons in any way interested in these undertakings. Hence it offers peculiar advantages for advertising the undersigned.

times of departure, rates of fare and freight, improvements in machinery, materials, as iron, timber, stone, cement, etc. It is also the best medium for advertising contracts, and placing the merits of new undertakings fairly before the public.

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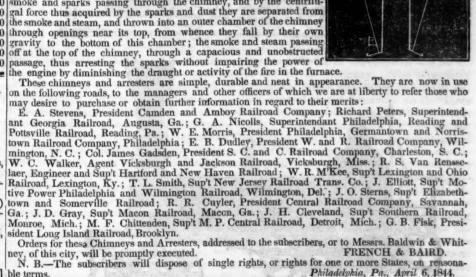
FRENCH AND BAIRDS PATENT SPARK ARRESTER.

TO THOSE INTERESTED IN Railroads, Railroad Directors

Our improved Spark Arresters have been extensively used during the last year on both passenger and freight engines, and have been brought to such a state of perfection that no an-noyance from sparks or dust from the chimney of engines on which they are used is experienced.

These Arresters are constructed on

an entirely different principle from any neretotore offered to the public. The form is such that a rotary motion is imparted to the heated air, smoke and sparks passing through the chimney, and by the centrifugal force thus acquired by the sparks and dust they are separated from the smoke and steam, and thrown into an outer chamber of the chimney



ney, of this city, will be promptly executed.

N. B.—The subscribers will dispose of single rights, or rights for one or more States, on re

le terms.

** The letters in the figures refer to the article given in the Journal of June, 1844.

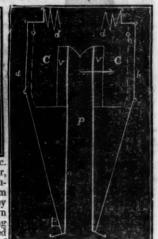
** The letters in the figures refer to the article given in the Journal of June, 1844. ble terms.

** The letters in the figures refer to the article given in the Journal of June, 1844.

A GOOD SECOND HAND LOCOMOTIVE Engine, 6 wheels, weighing with wood and water about 10 tons, with Tender complete, made by Baldwin, for sale by A. & G. RALSTON & CO. Mar. 20, 1m. 4 South Front St., Philadelphia.

S PRING STEEL FOR LOCOMOTIVES in manufacturing Spring Steel from 14 to 6 inches in width, and of any thickness required: large quantities are yearly furnished for railroad purposes, and wherever used, its quality has been approved of. The establishment being large, can execute orders with great promptitude, at reasonable prices, and the quality warranted. Address with great promptitude, at reasonable prices, and the quality warranted. Address.

JOAN F. WINSLOW, Agent, 15a3 Albany Iron and Nail Works, Troy, N. Y.



Mar. 20tf

will be executed with promptness and despatch.
Communications addressed to Mr. William H.
Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY,
ja45

President of the Newcastle Manuf. Co.

RAILROAD IRON AND LOCOMOTIVE
Tyres imported to order and constantly on hand
by A. & G. RALSTON
Mar. 20tf 4 South Front St., Philadelphia.

THE NEWCASTLE MANUFACTURING
Company continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack screws, Wrought iron work and Brass and Iron castings, of all kinds companies reconstructing their tracks now have an opnance reconstructing their tracks now have an opnan THE NEWCASTLE MANUFACTURING
Company continue to furnish at the Works,
situated in the town of Newcastle, Del., Locomotive
and other steam engines, Jack screws, Wrought iron
work and Brass and Iron castings, of all kinds connected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast wheels (chilled) of
any pattern and size, with Axles fitted, also with
wrought tires, Springs, Boxes and bolts for Cars;
Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders

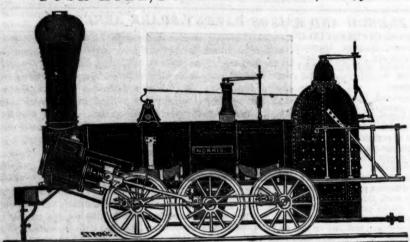
The works being on an extensive scale, all orders

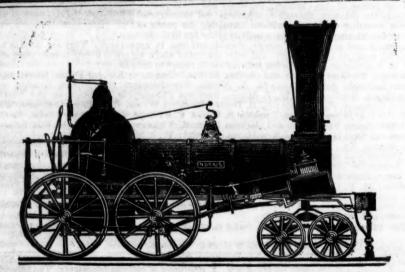
Albany, N. Y.

Mr. C. also announces that Railroads, and other works pertaining to the profession, may be constructed under his advice or personal supervision. Applications must be post paid.

NORRIS' LOCOMOTIVE WORKS

BUSH HILL, PHILADELPHIA, Pennsylvania.





MANUFACTURE their Patent 6 Wheel Combined and 8 Wheel Locomotives of the following descrip tions, viz:

Class 1, 15 inches Diameter of Cylinder, × 20 inches Stroke.

15 inches Diameter of Cylinder, × 20 inches Stroke. \times 24 14 × 20 22 22 144 20 44 66 124 X 66 44 44 25 X 20 66 101 a 22 × 18 a 22

With Wheels of any dimensions, with their Patent Arrangement for Variable Expansion. Castings of all kinds made to order: and they call attention to their Chilled Wheels, for the Trucks of Locomotives, Tenders and Cars.

NORRIS, BROTHERS.

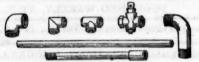
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TO RAILROAD COMPANIES AND BUILD ERS OF MARINE AND LOCOMOTIVE ENGINES AND BOILERS.

PASCAL IRON WORKS.

WELDED WROUGHT IRON TUBES

From 4 inches to 1 in calibre and 2 to 12 feet capable of sustaining pressure from 400 to 250 per square inch, with Stop Cocks, T. to other fixtures to suit, fitting together, with joints, suitable for STEAM, WATER, GAS, at LOCOMOTIVE and other STEAM BOLLER F



Manufactured and for sale by MORRIS, TASKER & MORRIS. Warehouse S. E. Corner of Third & Wainut Streets, PHILADELPHIA.

TO IRON MASTERS.—FOR SALE.—MILL SITES in the immediate neighborhood of Bi-tuminous Coal and Iron Ore, of the first quality, at Ralston, Lyoming Co., Pa. This is the nearest point to tide water where such coal and ore are found together, and the communication is complete with Philadelphia and Baltimore by capals and with Philadelphia and Baltimore by canals and railways. The interest on the cost of water power and lot is all that will be required for many years; the coal will not cost more than \$1 to \$1 25 at the mill sites, without any trouble on the part of the manufacturer; rich iron ore may be laid down still more cheaply at the works; and, taken together, these sites offer remarkable advantages to practical manufacturers with small capital. For pamphlets, descriptive of the property, and further information, apply to Archibald McIntyre, Albany, to Archibald McIntyre, Albany, to Archibald Robertson, Philadelphia, or to the undersigned, at No. 23 Chambers street, New York, where may be seen specimens of the coal and ore.

W. R. CASEY, Civil Engineer,

VALUABLE PROPERTY ON THE MILL VALUABLE PROPERTY ON THE MILL Dam For Sale. A lot of land on Gravelly Point, so called, on the Mill Dam, in Roxbury, fronting on and east of Parker street, containing 68,497 square feet, with the following buildings thereon standing.

Main brick building, 120 feet long, by 46 ft wide, two stories high. A machine shop, 47x43 feet, with large engine, face, screw, and other lathes, suitable to do any kind of work.

Pattern shop 35x32 feet with lathes, work bench-

Pattern shop, 35x32 feet, with lathes, work benches, &c. Work shop, 86x35 feet, on the same floor with the

Work shop, 86x35 feet, on the same floor with the pattern shop.

Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts, drums, pulleys, &c., large and small trip hammers, furnaces, forges, rolling mill, with large balance wheel and a large blowing apparatus for the foundry. Foundry, at end of main brick building, 60x45 feet, two stories high with a shed nart 45x20 feet.

feet two stories high, with a shed part 454x20 feet, containing a large air furnace, cupola, crane and

Store house—a range of buildings for storage, etc., 200 feet long by 20 wide.

Locomotive shop, adjoining main building, fronting on Parker street, 54x25 feet.

Also—A lot of land on the canal, west side of Parker st., containing 6000 feet, with the following buildings thereon standing:

Boiler house 50 feet long by 30 feet wide, two sto-

"Blacksmith shop, 49 feet long by 20 feet wide.
For terms, apply to HENRY ANDREWS, 48
State st., or to CURTIS, LEAVENS & CO., 106
State st., Boston, or to A. & G. RALSTON & Co.,
Painadelphia. Pauadelphia.

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LINA RAILROAD COMPANY.

company.

trips performed, an increase of 53,953 bales ments.

road \$408,704 87.

Carolina canal and railroad company for the gross income, being at the rate of 100 labor, of \$300 per month.

FIRST ANNUAL REPORT OF THE SOUTH-CARO. passengers, and realized in money for the of the piles, sustaining the cross ties and superstructure, on the Hamburgh road, are The statements from the Auditor which accompany this report, will exhibit a satisfactory account of the property, the liabilities, and the available assets of the S. C. R. R. company as now consolidated. To the Tabular statement No. 6, the attention of the stockholders is particularly invited, as exhibiting, on one sheet, a perfect synopsis of the business transactions of the South Carolina canal and railroad company for the gross income, being at the rate of 100 labor, of \$300 per month.

each half year from the commencement of per ct. on produce, 60 per ct. on the num- On the Columbia road, which is generally operations in the year 1830, to the 1st of ber of passengers, and 31 per ct. on the in good order, it was found indispensable to January, 1845, including the year 1844, of moneyed receipts. The increase on the renew some of the cross ties, between consolidation with the L. C. & C. R. R. moneyed receipts does not bear the same Orangeburg and Branchville, the last spring proportion to the increase on the quantity of and summer. As it is but 4 years and 6 This is an interesting paper, exhibiting the freight and number of passengers, and months since that section of the road was the number of Locomotives in service; the which is to be explained by the modification finished, that fact goes to confirm past trips and number of miles performed: the and reduction made on the rates of freight convictions that the durability of pine timincome received, and the fluctuations in the and passage in 1844. In 1842, the fare for ber at the South, exposed as the cross ties trade and travel on the road, and develop- passengers was 18 per ct.; on merchandize are on the Columbia road, on the surface ing results instructive to those charged with from 12½ to 15 per ct., and on cotton and and but half covered with earth, cannot be the direction and management of railways; weight freight, from 30 to 40 per ct. higher depended on to exceed an average of 5 years; where economy of expenditure and cheapness than it was in 1844. At the same rate of and that all timbered superstructures of of transportation are so dependent on the freights, provided the same amount of busi-roads in Southern latitudes, will require reproper construction and judicious applicaness could have been commanded, the innewal within that period, or one-fifth each tion of the powers of the Locomotive. This crease on the moneyed receipts, on the tran-year for the whole extent. By way of exis the great desideratum to be attained in sportation performed, would have been full periment, 6 miles of the Columbia road was all operations where machinery is used, and of vast importance to railroads, as the ele
The subject of the rates for freight and time has not yet elasped to test their superment on which their triumph over all other passage on railroads, must be relative, and ior durability over pine, or their greater conveyances, and success, must finally rest. be governed by the quantity of business and economy in the higher price. The durabilities views cannot be stronger illustrated number of passengers offering, and the comthan by comparing from the table, the opera- petition with other common carriers. To railroad companies: particularly as timber tions of the first with the last half years of meet a competition which is daily increa- superstructures are beginning to claim a the years 1843 and 1844. In the first half sing from the number of new roads in the preference to those made of materials of a years, 15 Locomotives in service, made 2,- United States, which have been construc-less yielding or elastic character; and has 036 arrivals and departures; ran over 319,- ted, and from the improvements in and engaged the attention for many years of the 968 miles; transported 130,366 bales of cot- new application of machinery, to steam nasuccessive Board of Directors of the S. C. ton and 48,722 passengers, and realized in wigation, it will be necessary to be governed in some degree by the fares established by dize and the mails, \$460,057 35. In the other common carriers, contending for the tent, seemed to act favorably on the fibres last halves of the same years, 16 Locomo- same business; or forfeit the claim on the of the wood to which applied; but the protives in service, making 1,904 arrivals and South Carolina road to a fair participation blem yet remains unsolved, whether the addepartures, and running 304,752 miles; 132 in it. By this policy, in regulating a Tariff ditional durability imparted, is compensated arrivals and departures, and 14,216 miles for freight and passengers, your directors have been governed: and they will continue transported 184,319 bales of cotton, 43,164 in the future, as they have in the past, to passengers, and realized for the road \$515,- bestow on this, as on all other subjects, af. tion was made by the S. C. C. and R. R. 743 85 in money; shewing that with but fecting the interests of this company, the Company, Mr. Lythgoe, thus remarks:—one additional engine, and less miles and consideration of their most matured judg. "I regret to say, the process of Earlizing sap timber, will not answer the purpose inof cotton, a decrease of 5,558 in the number of grades, and their lengths; with all we have used, out of the road, as soon as the moneyed receipts of \$55,686 50. The the lengths of the different curves and we possibly can, in consequence of its havdecrease in the passengers is explained by straight lines; the distance between the dif-the facts of two Methodist Camp Meetings ferent stations and depots, and their relative the iron to imbed into it, thereby injuring in the spring of 1844, at Ladson's Station elevations; with the elevations of each point the iron to a considerable extent." The reand the Cypress, and at which it was estimated there were between 5 and 6,000 at-Branchville and Columbia. A similar table, pense of the maintenance of way on the tendants. Another comparison between the we have in preparation for the Charleston Hamburgh road the last year, has been \$293 years 1842 and 1844, will serve to illustrate and Hamburgh road; which has not yet per mile; which, including the sum of \$828 the powers and advantages of the larger been perfected, for the want of the necessal expended in ditching and on embankment, class of Locomotives, six (6) of which have been added the last two years, to the 2d The Report of Mr. G. B. Lythgoe, the sum \$299 per mile. The examd 3d class engines previously used on the Superintendent of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews that unpense of maintenance of way on the columnation of the road, shews the colu road. In the year 1842, the year previous der his vigilant supervision, the track and em- bia branch was but \$138 per mile, includto the consolidation of the two roads, 14 en. bankments have been preserved in the same ing \$424 incurred in ditching and embankgines in service, made 1,809 arrivals and good condition, represented to be in the pre- ments, makes \$144 28-100 per mile. The departures; performed 286,995 miles; trans- vious year. He states, however, what has difference in the expense per mile on the ported 92,336 bales of cotton and 33,925 been long since apprehended, that the heads two roads, is explained by the different plan of construction, and the different ages of the rangements, to preserve the locomotives in Company. A reference to the act will roads; the timber, with the exception of one the best condition for profitable use; or to explain more satisfactorily its provisions, quire renewal. The expense of mainten- with economy and satisfaction. and the business on it increases.

cessor as master of the shops, 23 locomotives of the 2d and 3d class; enumerating all which bore the name in the yard, and 478, making for the whole \$17,498. Both and \$90,000 on the last estimate. If the be applied. To the above lecomotives, have been added the last two years, 6 of Balwin and Whitney's; 6 wheel connected locomopress its importance on those who, by your Western and Atlantic Railroad, that that ployed: and the best regulated English and exist. American roads preserve very nearly this proportion. Where the opposite policy is plication was made by many of the citizens the Coosa, by Will's Creek Valley and the pursued, locomotives often suffer; are soon of Sumter and Kershaw, for aid in the form Sand Mountain, with Guntar's Landing destroyed, and rendered worthless from the of a subscription, to assist in extending the on the Tennessee. All these events go to want of timely and effectual reparation. S. C. R. Road, under a provision in its approve the late action and policy of a ma-When the business of the road presses, and charter, to Camden. That body declined jority of your Board of Directors in co-opein no modes of transportation, are the alter-participating in the enterprise as a stock-rating to the extent of their ability with the nations from one extreme to the other, so holder, but responded favorably to the appli-Georgia Railroad and Banking Company, frequent as on railways, temporary expectation, so far as to authorise this Company and the West Point and Montgomery Raildients, where there is a deficiency for the to become joint stockholders with the citi- road Company, for the completion of their time of power, must be resorted to; and zens of that section of country through respective enterprizes, estimating them as engines, though slightly disabled and easily which the Road to Camden was to pass, and important links, in common with that of the repaired, are too frequently forced from ne-cessity, on another trip to their more per-rate in the work, an act was passed autho-road intercommunication connecting the manent injury, if not ruin; or taken in shop rizing the funding at 5 per ct. interest, and extreme eastern with the most south-western late at night, hastily overhauled, and rudely repaired by the light of the torch, so as to law reducing the stock in the L. C. & C. which not only this Company, but the city be replaced on road, for service, in time next R. R. Company, and which now stands of Charleston and State of South Carolina. It is difficult, under such ar- the credit of the State in the books of said cannot but feel the deepest interest, and ac-

short section on the Columbia road, not hav- conduct the operations at the workshops, To enable the stockholders to act more ad. ing had time yet to manifest decay or re- and regulate the transportation on the road visedly on the subject, and at the particular

ance of way on the Hamburg road, if preserved at the above standard, \$299 per mile, Mr. King, and the agent of transportation, terest in the enterprize, a preliminary sur. is as low, probably as it can be reduced to; Mr. Hacker, show that this company now vey was ordered by the Board of Directors. while some addition to the amount incurred have in service, for the very large and in- Mr. Mac Rae, favorably known to the stock- for the same objects on the Columbia branch, creased business which has devolved on it, holders, was charged with the service, and will become necessary as the age of the road but 18 passenger and baggage cars; and his report and approximate estimate of the d the business on it increases.

283 freight cars; 147 of which, are of 4 probable cost of the work, is herewith rewheels with canvass sides, and of inconsid-spectfully submitted. His estimate is based workshops, presents the state and condition erable burden: the whole of them, not on two plans of superstructure. In the one, of the motive power owned by the company: more than equal to accommodate the loads where a wooden stringer and light iron rail and a favorable statement of the quantity of for 2 engines. Of these, one 8 wheel Pas- is used, the cost is estimated at \$450,000. work done in the finishing and smithshops and senger, one 8 wheel Baggage, thirty-two 8 In the other, where a heavier T rail is used, foundery, and on the locomotives rebuilding wheel Box, and fourteen 8 wheel Platform and the plan is made to conform to that of and repairing, the last year. From his re- Cars have been added during the year 1844, the Columbia Road, the cost is put down at port, it appears he received from his prede- and at a cost to the Company for wood- \$540,696. In both estimates the present one new boiler finished. Of these locomo- of these officers, and whose duties and re- tax is remitted, or reduced to a revenue tives, many of which, had been in the ser-sponsibilities afford them the best opportustandard, there will be a corresponding device of the South-Carolina canal and rail nity of forming correct opinions, concur in crease in the probable cost of the Roan. road company from its commencement of the necessity of an additional number of The Board of Directors, with much satisbusiness in the years '31 and '32. Four Passenger, Baggage and Burden Cars, to faction, now report to the stockholders, the are stated to have been in good order; 7 do the business of the road to the best ad- extension of the Georgia Railroad to Covdefective, and somewhat disabled, but per- vantage, with punctuality, and to the satis- ington, 25 miles beyond its late terminus at forming road service; 6 repairing, and re- faction of travellers and shippers. The want Madison; and that the reported progress in building, and 3 condemned; since which, 3 of more suitable and more enlarged accom- the section above, removes all doubts as to of those disabled, have run their career and modations at the depots at Charleston, Ham- the road being completed to Whitehall, the been condemned; or laid up in ordinary for burg and Columbia, is the more strongly en-point of junction with the Western and Atsummer examination, and see to what pro- forced by their testimony; and while these lantic Railroad, by September or October fitable purposes they, or parts of them can subjects have engaged the attention of the next, and in time for the opening of the fall tives of the 2d class. Deducting the 6 selection, may be their successors in office road will be completed and in operation to which have been condemned, or laid up in for the present year. It may involve contain the Oostanauly, 84 miles beyond Whitehall ordinary—and one (1) that is rebuilding, 22 siderable expenditure in the first instance; and within 56 of the Tennessee River at may be considered as in a condition to be but the interests of the Company, and its Chatanouga, and 17 of the Coosa at Rome. made fit for road duty, under occasional re- security and protection from probable heavy pairs; from 16 to 17 of which, have been loss; and its ability, through active agents, dition of the West Point and Montgomery kept in active service during the year end-ing 31st December, 1844: which is a very its varied responsibilities as a common car-tive measures taken to extend it some five large proportion. It has been considered good rier, to all who travel and transport on the or six miles east of Chehaw. At the late policy, and particularly by those well ac-quainted with the delicate mechanism of the more suitable, more commodious, and more 2 per cent. land fund, and amounting to locomotive, so easily deranged, that compa. permanent buildings at the workshops, and about \$240,000, was appropriated in equal nies should own double the number that the three important depots at Charleston, proportions, and on most favorable terms, to they can keep constantly and profitably em. Hamburg and Columbia, than at present the completion of the West Point and Mont-

solicitation of many of the citizens of Sum.

Within the last twelve months the congomery Road to the Chattahoochee, and to

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Mancl Manch cheste way, 1 633l.; Wyre, JAMES GADSDEN, President.

Schuylkill Navigation .- We hope the an-

It will be seen by an advertisement in our paper of this morning, that the company are prepared to receive proposals for the enlargement of their work. We congratulate our friends upon their success in obtaining the necessary funds to carry out this interesting improvement. The amount repromptly furnished by our own fellow citizens, who understand the subject, appreciate the importance of the Navigation, and have confidence in its success. We may now look forward to a bright day again in our City completion may also be expected to exercise the happiest influence upon our commerce and manufactures. The Engineers who have furnished the plans and estimates, are nity. According to their reports, an expenworks, will increase their capacity three-fold. the cost of transportation will thus be reenlargement and improvement will be vigorously prosecuted to completion. We understand that proposals have already been made on a large portion of the heaviest work, at rates within the estimates of the Engineer, by competent contractors.

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INSTITUTION OF CIVIL ENGINEERS.

The paper read was "a description of the ticipations of the editor of the U. S. Gazette Great Britain steam ship, with an account may be more than realized in the results of the trial voyages," by Mr. T. R. Guppy, Assoc. Inst. C. E., under whose superintendance the vessel and engines were constructed. The paper first gave an account of the origin of the Great Western Steam Ship Company, by a few of the proprietors of the Great Western Railway, who thought that, when their railway was completed, Bristol would become the natural port for a diquired for present operations has been rect line of communication with New York -hence the building of the Great Western steamer, which succeeded beyond the expectation of the proprietors, with the single exception, that, like many other steamers, the machinery and fuel occupied so great a Finances, which are so intimately connected with the prosperity of this great work: its completion may also be expected to exercise judicially in a pecuniary point of view. The company then projected a second ship, and, after much consideration, decided upon building it of iron, with peculiar direct actwell known to us: they are entitled to and ing engines; and, in consequence of the enjoy the fullest confidence of this commu. apparent success of the experimental Archimedes, they determined upon using the diture of one fourth the present cost of the screw propeller. The details of the construction, with the dimensions, were then It is estimated by the highest authority, that given: of the latter, as they have so repeatedly been published, it will suffice to menduced one-third to one-half. There is no longer the slightest reason to doubt that the 50 feet 6 inches; depth of hold, 32 feet 6 inches; tonnage, 3,444 tons. The weight of iron used in the hull is 1,040 tons; the weight of wood work, in decks, &c., is 370 remarkably well, steered well, and, although tons; weight of the engines and boilers, without water, is 520 tons; the total weight is, therefore 1,930 tons. She will take 1000 est weather the engines worked uniformly, Increase of Railway Traffic.-Wills tons of coal, and 1000 tons of measurement Liverpool share circular gives a list of 25 goods, at a draft of 17 ft. water forward, and 17 ft. water forward, and 18 paddle-wheels are alternately plunged deeply Railways which shows an increase of re Railways which shows an increase of reenter into the details of the construction, which and then nearly out of the water. ceipts, during the first eight weeks of this were fully given in the paper, and amply illusyear, as compared with the corresponding trated by numerous drawings and models to which Sir Charles Napier, Captain Hosken, period of last year, of £100,612. which a large scale, covering the walls and table. and several naval men, as well as the engiwill give, should the same ratio of increase of continue through the year, an increase of any one compartment, in case of fire, and several naval men, as well as the engineers, took part, the principles and the comparative advantages of the paddles and the screw were discussed. It was allowed, that £653,678 or over three millions of dollars.

Birmingham and Gloucester, 2,677l.; strongly insisted upon. The action of the great advantages, and particularly for war chester and Birkenhead, 514l.; Eastern screw propeller was then fully treated, and steamers, the present construction of which Counties, 2,1731.; Edinburgh and Glasgow, from the tabulated result of the experiments, Sir Charles Napier condemned in toto. Few 1,9841.; Glasgow, Paisley, and Greenock, on several kinds of screws, it appeared, that, men have had more opportunities of forming state of the several kinds of screws, it appeared, that, then have had incre opportunities of forming 161l.; Glasgow, and Ayr, 1,597l.; Grand Junction, 5164l.; Great North of England, of the vessel (which was 8.375 knots) was attained with a screw 5 feet 9 inches in ditwenty years, having been interested in, and pool and Manchester, 3,245l.; London and ameter, the angle of which was 19\frac{3}{4} degrees. commanded in her first voyage, in 1821, the Birmingham, 5,411l.; London and Brigh- The slip was 21 per cent., and the ratio of Aaron Manby, which was the first iron steam ton, 2,618l.; London and South Western, speed of the vessel to that of the screw, was vessel that ever went to sea, and which con2,315l.; London and Croydon, 1,214l.; as '787 to 1. Subsequent alterations in Manchester and Birmingham, 3,413l.; form gave improved results, and governed without transhipment. Capt. Hosken gave Manchester, Bolton, and Bury, 636l.; Manchester, Bolton, Bury, 636l.; Manchester, Bury, B chester and Leeds, 5,0431.; Midland Rail- Britain. It was of wrought iron, with six as a weatherly ship, and of the screw as a way, 10,314l.; Newcastle and Carlisle, 1, arms, 15 feet 6 inches in diameter, with a means of propulsion at sea. The discussion 633l.; North Union, 2,889l.; Preston and Wyre, 899l.; Sheffield and Manchester, which equals an angle of 28 degrees; the 11).—Mining Journal.

knowledge the important influence its completion must have on the prosperity of each.

All of which is respectfully submitted by

1,126l.; South Eastern and Dover, 15,143l.; area of the six palins was 561 feet, and its Ulster, 124l.; York and North Midland, weight was 77 cwt. The engines employed 1,070.—From Mr. J. Will's Liverpool Share to drive this screw consisted of four cylinders, each 88 inches in diameter, with six feet stroke, working with steam at 41 lbs. pressure, and cutting it off at one-sixththe length of the stroke. The connecting rods act directly in pairs upon crank pins, at either end of the main shaft, 17 feet long by 28 inches in diameter. Upon the main shaft is a toothed drum, 16 feet diameter, around which work four pitched chains, encircling also a lower drum, 6 feet in diameter, upon the propeller shaft. The chains work quietly and smoothly; and, when the engines are making 18 revolutions per minute, the speed being nearly 2.95 to 1, the screw makes about 53 revolutions per minute. A considerable portion of this shafting was 30 inches diameter, hollow, and formed of two courses of plates, three-fourths of an inch thick, rivetted together.

> The slip of the screw was also discussed at length, and it appeared that in one trial (the engines making 183 revolution, the speed of the vessel being 121 knots) the speed of the vessel was as .907 to one of the screw. The details of the dimensions of the boilers were given, but owing to the sea-sickness of the stokers on the voyage, no account of the consumption of fuel could be given. The account of the trial trips in the British Channel, and of the voyage from Bristol to London, abounded in curious facts. It appeared that with the engines making 181 revolutions, the speed of the vessel would be 111 knots, and the slip of the screw 13 per cent.; even during the voyage round, disadvantageously loaded, with no weight in her bottom, she rolled easily. In the heaviand never made those variations in speed,

> In the conversation which ensued, and in

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STATE WORKS.	Lengt	h	Dost.	WOR:				Trans.	e State	Canals	are all 4 f	feet deep, and	the lock
	in mile			Income.	Expend.	Income.	Expend					feet deep, and 90 feet in len	
Y. 1 Black river canal			524,967	10 555	10.050	04 616	14 44	T	he six	millio	ns paid	to the cana	l fund f
3 Champlain canal.			237,000 251,604		10,953	116,739	14,44	Jauct	ion and	1 salt	duties a	are not incl	luded in
4 Chemung	. 23		684,600			14,385		estin	nate of	cost.	The C	denesee val	ley and
" 5 Chenango	. 97		120,000					Diac	k river	cana	us requi	re large su	ms for t
6 Crooked lake	. 8		56,777	461			3 95	lie	neh con	me n	hen the	f which add estimated gr	ruionai
7 Erie—enlargement of	. 363	12.6	48.852	1,880,316		1000		of th	eee ca	nale	when fin	ished. Th	ross inc
' 8 Genessee valley	. 120		39,000			Annual Control	100	quire	ed to co	mnlet	te these t	two canals	pre 40 (
9 52 miles opened, cost \$1,500,000				12,292	13,819	19,641	15.55	7 000 :	and \$6	00 000	nakin	g their tota	l cost v
10 Oneida lake	6	1	50,000	225	2,239	621	1,63	finish	red \$5	553.00	00 and \$5	2,409,000;	an expe
11 Oswego	. 38	5	65,437	29,147	22,742	56,165	28,59	ture	incurre	ed on	estimated	d incomes (admitte
a. 12 Beaver division canal	. 25					7,381	5,38	be lil	peral.)	of \$35	9.000 and	d \$14,000 r	espectiv
13 Delaware canal	. 60					109,278	22,870	ויד (e total	recei	nte from	the works	of Pany
14 French creek	. 45							4.4	for 1	943 n	pos Hom	019,401; for	1844
IJ Seneca river towing path						381		164 3	26 and	the	onet abou	t 30 million	TOTE
To Columbia failloau	. 82					443,336	205,06	71				rere as follo	
Li Edstein division	. 36					179,781	138,91	Cana	1 tolls	*			578
10 Juliata Callat	. 93							Raily	nad to	lls.	E TYPE	Tyrin in Barri	252
	. 130					351,102	248,943	Moti	ve now	er.	2		319
	105)					-	Truc	ks.	-			13
21 North branch Susquehannah canal 22 West " " "	. 73					101,949	57 633	of mil	inh the	OF OO	O in farm	110 milas	of mails
io 02 IT aliana	. 72		-	• • • • • • • • • • • • • • • • • • • •	1	10.37	01,000	and 4	578 40	4 from	m 550 m	iles of cana	1.
io 23 Hocking canal	. 56		75,130	4,757		5,286	4,139	FINE	0.00,20	loof	Ohio	o comments	her -
24 Miami canal.		1,6	60,742	68,640	38.826	77,844	22,341	nontre	taraf	51 -	ille on	e supported	Thoma
25 Miami extension	. 105	2,8	56,636	8,291		12,723	14,741	Perty	ilog of	On In	l in the	he dollar. State, which	I nere
26 Miami northern division	35	3	22,000			unfin'd.		1949	\$471 C	cana.	nd in 10	State, which 344 \$515,39	3 the
27 Muskingum	91	1,6	27,318	23,167		29,385	15,027	let T	W 11,0	hoine	415 577	,233. The	increase
28 Ohio	334		00,000	322,754				15t JE	or 249	is on	w 442 m	,233. The 70, though t	he week
29 Wabash	91		28,340	35,922		48,589	12,817	hase	chibite	da c	reater in	o, mough the	ne year
30 Walhonding	25		07,269	838		1,977		count	ry that	e a g	before k	mown	-Snout
32 Sundry works	31	2	55,015	7,254		8,747							
32 Sundry works		. 11,00	00,000			• • • • • • • • • • • • • • • • • • • •	******					undry work	s yield
34 Sundry works									ne wha			elds above	C man a
h 35 Central railroad	110	. 10,0	00,000	140.00%	PE 000	011 170	90 400	and i	the or	al rai	tata wron	k—the Erie	opero
36 Southern railroad	60	1,0	36,295	24,064		60 341	70,000	center	-whi	ch is	able to s	tand alone.	Canai
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CANALS.	Length	1 .	ost.	1843.	Du		844. ome.	Div.	Value	1		REMARKS.	
VARIABIA	miles.	00	ist.	Gross.   I	Nett. cen		Nett.	per cent.	stock.	1		H COLORADO	
Blackstone													m to l
Bald Eagle Navigation	25												
Beaver and Sandy, (part)										W	e may, r	perhaps, ats	ome fut
Charleston, (S. C.)		2,00	0,000							time	be enabl	led to give t	he part
Chesapeake and Ohio	194	10 27	43 4840										2.30
			0.470	47.637						lars	of all the	ese canals.	
Conestota	12	30	0,470	47,637						lars o	of all the	ese canals. peake and (	Ohio ca
Conestota Delaware and Chesapeake	12 13	30	0,470	47,637					26	is no	ne Chesa	peake and completed to	the o
Conestota  Delaware and Chesapeake  Schuvlkill	12 13 108	350	0,000	79 795 10	2 991	190 693	120 624		26 31	is no	ne Chesa ot yet co	peake and completed to its trifling i	the oincome
Conestota  Delaware and Chesapeake  Schuvlkill	12 13 108	350	0,000	79 795 10	2 991	190 693	120 624		26 31	is no mine Th	he Chesa ot yet co es, hence he enlarg	peake and completed to its trifling its gement of the	income ie Schi
Conestota. Delaware and Chesapeake. Schuylkill. Farmington. James river and Kenhawa.	12 13 108	3,50	0,000 2	79,795 10	2,221	190,693	120,624		26 31	is no mine Th kill o	ne Chesa ot yet co es, hence he enlarg canal has	peake and ompleted to its trifling in gement of the s been communication	the oincome ie Schr nenced
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Lachine rapids.	12 13 106 	3,500 2,900 3,000 2,900 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	0,000 2 0,000 2 0,000 0 0,000 0 0,000 0 0,000 0 0,000 0 0,000 0 1 1 1 2 3 1 2 4 8	8   Cangh of chamber   150   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   2	2,221	is. 190,693 . 131,491	Width of Bottom.  feet. 45 35 45 50 50 100 80	f canal Surface feet. 81 71 85 90 90 90 150 120	26 31 28 Estim 3,948 672 865 1,190	This more mine of the control of the	the Chesa of yet or se, hence the enlarge anal has the Morris of the me million of secost. 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	RAILROADS.	in	Cost.	and	of	on	Inco	me.	per	Inco	me.	per	ous	April	23d
1		miles.		debts.		share	Gross.	Nett.	cent.	Gross.	Nett.	cent.	prices	Shares.	
6.1	Portland, Saco and Portsmouth	50 35	1,200,000			• • • • •	89,997	47,166	7	124,497	74,841	6 12	704		102 139
H. 88.	2 Concord	56	1 485 461			****	178,745	68 499	6	233,101	86,401		1104		112
1819.	4 Boston and Maine extension	17 1-4					,								1
	5 Boston and Lowell	26	1,863,746				277,315	144,000	8	316,909	147,615		1204		12
	6 Boston and Providence	41	1,886,135	none.	18,600	100	233,388	110,823	6		156,109		1081		10
	7 Boston and Worcester	44	2,914,078				4 0,141	162,000	6	428,437	195,163	71	1161		11
	8 Berkshire	21	250,000	not stated				17,500	13	17,737	13,971	51	701		8
	9 Charlestown branch	54	2 388 631			****	279 563	140 595	6	337 938	227,920		1091		140
- 1		50	1.150.000	iustopn'd				140,000		42,759			120		12
	11 Fitchburg	14 1-2	380,000				84,079		8	94,588			121		1.0
	13 New Bedford and Taunton	20	430,962				50,671	24,000	6	64,998	24,000	6			
	14 Northampton and Springfield		172,883	unfin.											1:
	15 Norwich and Worcester	59	2,170,366	900,000	16,535	100	162,336	24,871		230,674	99,464	3	70± 102		10
	16 Old Colony	4	63,075	unin.									102	**	10
- 23	17 Stoughton branch	11	250,000	dillin.				20 000	8	96.687	20,000	8	118		13.
6	19 Vermont and Massachusetts							20,000		00,007	20,000				
	20 West Stockbridge	3	41,516	200		100						4			
4	21 Western, (117 miles in Mass.,)	156	7,686,202	4,686,202	30,000		573,882	284,432		753,753	439,679	3	1021		
4	22 Worcester branch to Milbury		8,43	506									00		
	23 Housatonic, (10 months,)	38	1,244,123		10,000					150,000		6	82	4	
n.	25 Hartford and Springfield	25 1-2										0			1
6	26 Stonington, (year ending 1st Sept.,)	48	2,600,000		13,000		113.889			154.724	79.845		41		
Y.	27 Attica and Buffalo	31 -	336.211				45,896	7,522		73,248 237,667	48,033	0			
16	28 Auburn and Rochester	78	1,796,342	200,000	14,000	100	189,693	112,000		237,667	152,007	6	106		
	29 Auburn and Syracuse	26	766,65	7	1 7000	133	86,291	27,334		96,738	52,544	6	116		
6	30 Buffalo and Niagara	22	5 000,000		1,500		******	******					100 311		
16	31 Erie, (446 miles,)	53	3,000,000				*****	48 000		126,020	50 075		914		10
16	33 Harlem	26	1.206.23			1100	******	*0,000		140,685	62,399		70		7
6	34 Hudson and Berkshire		575,613	3	1	50							14		1:
6	35 Long Island	96	1,610,22	392,340	29,846					153,456		0	751		
6	36 Mohawk and Hudson	17	1,317,893	400,000	10,000	100	69,948	58,780					641		6
	37 Saratoga and Schenectady	22	303,658				42,242	3,000	1	34,666					
	Schenectady and Troy	53	040,800	none.	16,000	con	28,043	760,000		32,646	6,365	8	115		
	10 Tonnawanda	43	727 336	2	10,000	023	76,227	12,000		114,177	75,865	5			1:
33	11 Troy and Greenbush	6		0						114,111	10,000				
	42 Troy and Saratoga	25	475 80	1			44 325	21,000		38.502	9,971	21			
	43 Utica and Schenectady	78	2,168,168	none.	20,000	100	277,164	180,000	9	331,932	199'094	8	129		
. J.	44 Camden and Amboy	61	3,200,00	0			682,832	383,880		784,191	404,956		110#		11
14	15 Elizabethtown and Somerville	26	1 500.000						1						
16	46 Morris and Essex	34	2 000 000				******	1					931		
	48 Paterson		500,000	0				******				6	85		
a.	49 Beaver Meadow	26	11.000.000	1											
16.	50 Cumberland Valley	46	1.250.000	N											
16	51 Harrisburg and Lancaster	36	860,000										30		
16	52 Hazleton branch	10	120,000	j			******								
	53 Little Schuylkill	29	600,000	)										******	1
	55 Mauch Chunk		100,000	)											
16	56 Minehill and Schuylkill Haven		315,000						12				1431		1
16	57 Norristown	20	800,000	)									61		1
16	58 Philadelphia and Trenton			)									104		
16	59 Pottsville and Danville		1,500,000	7 447 570	40 000	50		******			940 5		50:		1
16	60 Reading	94		7,447,570				*****		597,613	343,511		501		45
	62 Williamsport and Elmira	25					20,000		****						
11	63 Philadelphia and Baltimore	93	4.400,000				43.043	200,000			210,000		431		4
el.	64 Frenchtown	16	600,000												
d.	65 Baltimore and Ohio, (1st Oct.)	188	7,623,600				575,235	279,402		658,620	346,946	1	481		5
6	66 Baltimore and Susquehanna.	58	3,000,000							212,129			5		1
a.	67 Baltimore and Washington	38	1,800,000				177,227	71,691		212,129	104,529		84		1
EL.	68 Greensville and Roanoke	60	260,000							122,871	70 909				1
6	70 Portsmouth and Roanoke	78 1-9								122,871	12,000	0			1
3	71 Richmond and Fredericksburg.	61 1-9	1,200,000												
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	73 Winchester and Potomac	32	500,000												
C	74 Raleigh and Gaston		1,360,000												
	75 Wilmington and Raleigh	161									140 100	· · · ·			
	77 Columbia	66	5,671,459		34,410		201 464	77,456			140,196	5			
a.	78 Central	190	2.581.723				227.532	93 190		1		1			1::
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communications by Monday morning at latest.

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#### AMERICAN RAILROAD JOURNAL.

PUBLISHED BY D. K. MINOR, 23 Chambers street, N.Y.

#### Thursday, April 24, 1845.

NEW YORK AND ALBANY RAILBOAD.

The passage of the following very important rerailroad hence to Albany almost certain. The com- condition in which it lies. plete failure of the Hudson and Mohawk railroad prevented the citizens of Albany from embarking in similar projects for some years, but the success of their efforts to aid the Western railroad has fortunately shown them that skill and character can succeed in undertakings far less promising than those which have turned out worthless where these attrinothing definite as to the charters which are asked for by the rival companies.

the like action, to extend aid to the same, by the loan the like extent and amount, as was heretofore done in relation to the Albany and West Stockbridge railroad. A true extract from the minutes

J. H. H. Parsons, Clerk Com. Coun.

#### RAILROAD IRON.

The Portland Advertiser shrewdly observes that, "CANADIAN RAILROAD.

"We are sorry to the time they want their iron, say a year or two hence, the price will be considerably lower than at present. We perceive by our late railway journals, that purchases and orders are to the smallest possible extent in England, and, when we consider that the average price two years ago was £8, and that it is now reported at £14 per ton, it is pretty clear that competition in England will remove this veto on the Boston to Chicago—would yield a profitable and interval and the subscriptions to the stock of the Providence and Worcester railroad company have advanced so far as to leave but little doubt that the project will succeed. More than \$400,000 have by the time they want their iron, say a year or two railway system in the United States. We are sorry to say that we rely on competition in England; for the American iron-masters appear to consider rail-road iron as unworthy their notice. We have understood from pretty good authority that not a bar of while the other will pass through the chief towns,

Correspondents will oblige us by sending in their T rail has yet been rolled in the three great anthrammunications by Monday morning at latest.

T rail has yet been rolled in the three great anthraviz: Chatham and London on the Thames, Woodstock, Oxford, Brantford, Hamilton and St. Catharine's to Queenston."—[Detroit Journal.] been rolled in the "iron region" of the United States! The exorbitant price at this moment effectually deters any new undertakings, as a reaction is natural-mony and unity of action in the leading men of that ly expected; but those works which for the last year or two have been holding out such large promises, might have shown us something, for we have not heard of a single mile of railway of American T rail which is traversed by the locomotive. In judging of the price hereafter, it must be remembered, that the consumption of iron is increasing from a variety of causes, and that the extreme low prices of 1844 are almost as unlikely as they are certainly undesirable. In the course of twelve months we hope that rails may be quoted at £8 per ton, a fair price in 1835, and a profitable one now. As we observed some time since, the high price of railroad iron will igan, and Indiana, and by the agricultural interest fare and the appointment of a railroad commisgenerally, for that first of all pursuits has more to sioner." expect from the extension of the railway system than solution would seem to render the construction of a from any other course, to raise it from the depressed from many of the remarks we are glad to perceive

#### ZINC MINES OF NEW JERSEY.

Mr. Francis Alger, of South Boston, a gentleman well known for his devotion to the study of mineralogy, has published a small pamphlet on the zinc mines of Franklin, Sussex county, N. Jersey. This district has long been famous among geologists, and now bids fair to become as interesting to the manubutes existed only in minute quantities. We have facturer. These beds extend about four miles, and are supposed to contain "the only deposite of oxide of zinc at present known to mineralogists."

At a meeting of the common council of the city of Albany, held at the city hall in said city, on the 13th day of April, 1845: present the mayor and recorder, aldermen Archer, Bleecker, Coley, Goold, Haswell, Hanson, McCollom, McKnight, Penuy, Phelps, Pruyn, Ramsey, Spears and Wescott.

Phelps, Pruyn, Ramsey, Spears and Wescott.

His hon, the recorder offered the following resolution which were unarringeness.

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"Taking the specific gravity of the red oxide at ly entire. Haswell, Hanson, McCollom, McKnight, Penuy, Phelps, Pruyn, Ramsey, Spears and Wescott.

His hon, the recorder offered the following resolution, which was unanimously adopted:

Whereas, an application is now pending before the legislature for an act to provide for the construction of a railroad from the city of New York to the city of Albany, on the east side of the Hudson river, And, whereas the establishment of such a communication with the commercial metropolis of the State is, in the opinion of the board, highly desirable, and would tend greatly to promote the interests and prosperity of Albany,

Resolved, therefore, that the common council of this city, in case of the passage of the act aforesaid, will afford all the facilities and assistance in their power towards the construction of said road, and for that purpose consent and agree to take on their part the like action, to extend aid to the same, by the loan of the action, to extend aid to the same, by the loan of the action of the metal is consequently 170 lbs. of the ore contains 81 per cent. of pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lbs. of the ore contains 137 lbs. pure metal; consequently 170 lb rage width cannot be less than 4 ft. Now, 600 x 4 x to admit the Erie railroad within the borders of that pense preparatory to the reduction of the ore, includ-ing its reduction also, it is pretty well ascertained that the metal may be obtained in the large way at of the credit of the city, in the same manner, and to a cost not exceeding three cents per pound. Here, the like extent and amount, as was heretofore done then, there would be a clear profit, deducting the cost of buildings, and the expenses of transportation to market, of nearly \$1,000,000. If we suppose the quantity of ore consumed daily to be ten tons, (a small estimate) only five years will be required to work up the ore contained in the space mentioned."

#### " CANADIAN RAILROAD.

Here we have two charters, where one road is almost too much to be expected, even with perfect harentire section of the province.

The following acts were passed during the late session of the Canadian legislature:

An act to incorporate the St. Lawrence and Atlantic railroad company.

An act to revive certain provisions of the act incor-porating the Great Western railway company, and to enable them to carry on that work.

An act to amend an act passed in the sixth year of the reign of his late majesty king William the fourth, entitled, An act to incorporate the city of Toronto and lake Huron railroad company.

We are under obligation to J. E. Bloomfield, be severely felt by our western friends in Ohio, Mich- Esq., for Mr. Morrison's report on "a reduction of

> The report takes decided ground against both, and that our legislators are becoming better acquainted with the subject of public works, properly so called, and begin to comprehend the vast difference between works to facilitate the intercommunication of our citizens and works to extort money in the shape of taxes, or by other equally disagreeable meansthe state monopoly of western freight.

> We are obliged to defer our remarks on the Central railroad, but will endeavor to give them and the report of the president in the next number. In this number we give the report of the engineer near-

from the State lien of three millions, on certain con-

The legislature of Pennsylvania has refused

The mayor of Baltimore has sighed the amended bill to forward the iron and coal trade of

The price of iron in England is still advaneing; sales of Welsh pig at £7 10s.! Scotch, £6.

Freights from Cleveland to New York, via Buffalo, 70 cts. per bbl; via Oswego, 2 cts. less

We understand that on Thursday last, the Eastern railroad company unanimously accepted

The Fichburg railroad company have purchased the property owned and occupied by the hon.

the project will succeed. More than \$400,000 have

RATES OF FREIGHT.

freight than ever before known. They advertise to carry flour from Buffalo to Albany the former mode of communication is liable for 55 cents per barrel; and as 35 cents of to the insuperable disadvantage of being ing the project to capitalists. Canadians, of flour 363 miles. At the rate of the West-shuts up the rivers and lakes, when the proincluding tolls. On the Hudson, also, the market. rates are reduced 20 per cent. Last year We perceive that coal freights from Phi- presents no obstacles, more difficult to over. now they charge only 8 cents. There was and \$1 45 to Albany, and that there is a The statement, of late so industriously cir-(55 + 8) or 24½ cents per barrel less. The few more important topics. profits of the past season must have been discriminating tolls will be as unnecessary road. as they appear to be, and, we hope, are likely to continue, impracticable. Had the en-attention of our readers to this subject-and templation of such an event fills one with largement not been commenced, the tolls the more we reflect upon it the more tho- astonishment and wonder. A great revolumight have been reduced to 20 cents per roughly do the magnitude and importance barrel of flour; when the total charge would have been 42 cents—little more than the community, at the present time, should be rates from Kingston to Montreal. Still we the completion of this road. Every man do not believe even this advantage would who regards the welfare and prosperity of have diminished the trade via the St. Law- New England—and especially of the capi-town was held at the town hall on Tuesday rence. The flour which goes that way must tal of New England—should engage him- evening of last week, to take into considertake that route, or remain in the west; it is self in this work. The railroad from Bos- ation the construction of a railroad from not, as we have often explained, diverted sooner it is commenced, the better it will be or 60 gentlemen was also present from Norfrom the Erie canal, but it is so much addi- for the people of Boston. tional purchased from the western farmer, even increasing the price.

Many will imagine that the Western rail- land. road carries at less than cost, but it must be remembered that they charge the same for flour delivered on the line, that they have large quantities of return freight, and that, as a certain number of freight trains must even at a low charge. There are also a variety of local inducements, which have their influence, and very properly too. Lastly a railway doing a large business in passengers articles in large quantities at very low rates, and this is in fact the secret of the success

a passenger train may run 25 miles per hour, cart and poney. The forwarders on the Erie canal have and a freight train 6 miles per hour. Nei-opened the campaign with lower rates of ther a canal nor a common road can do one funds; for the provincial parliament, in this amount goes to the State for toll, they closed nearly half the year, including off the route, will be very slow in taking its receive only 22 cents for carrying a barrel that most important period before winter stock. Their subscriptions when made, will ern railroad they would receive only 45 cts., ducts of the husbandman's toil are ready for to Boston.

they carried flour for 10 cents per barrel; ladelphia are one dollar per ton to this city, come, than the same distance east or south. a combination among the forwarders in '44, great want of vessels to load with coal at to keep up the price; now they combine to Baltimore. In our last and previous num- with even the Canadians who favored the reduce it. The charge, during the past sea- bers we have given statements of the charges Stanstead route. I presume measures will son, was 871 cents per barrel of flour from on many of the principal lines of the coun. be taken, north of us, to cause a survey du. Buffalo to New York; now it is 63 cents, try, and at this season of the year, there are ring the approaching summer.

(55 + 8) or 244 cents per barrel less. The few more important tonics.

We find the following in the Burlington great, or they are now engaged in a ruinous Free Press, the only paper - American or able report has been made upon it to the sebusiness. At these rates there will be little Canadian—in which we have seen any noinducement to use the Welland canal, and tice of the extension of the St. John's rail-

"We took occasion, yesterday, to call the

who would gladly furnish them ten times as this road, we publish the following extract meeting. much, without in any way diminishing the of a letter from a highly respectable gentlequantity sent to the New York market, or better acquainted with the business of Can- cretary. On taking the chair, Mr. Lincoln

by railroad, with the seaboard, either at Port- and also to the section of country through land or Boston, via Stanstead, appears to which it will pass, if built. me one of those wild schemes which someof our northern roads. They accommodate road leading through the French settlements, holders. themselves to the wants and wishes of the community, both as to travelling and the transportation of freight; on the same read Canadian French national transportation of freight; on the same read Canadian French national transportation of freight; on the same read Canadian French national transportation of freight; on the same read Canadian French national transportation of freight; on the same read Canadian French national transportation of freight; on the same read Canadian French national transportation of the same read canadian frequency and the same read transportation of freight: on the same road Canadian French patronize nothing but a Worcester. At the conclusion of his re-

The friends of that road

" 'The route from Burlington to Canada culated to the contrary, was the offspring of ignorance or malice, and gains no credit

Ogdensburgh to lake Champlain has passed the N. York house of assembly, and a favornate. This will soon become a law; and, when that road is completed, together with ours-making a continuous line from lake Ontario to Boston-imagine, if you can, the enormous extent of its business. tion is at hand, and prompts us to take an

#### RAILROAD MEETING.

th ti se a

A meeting of many of the citizens of this ton to Montreal must be built; and the Worcester to Nashua. A delegation of 50 wich, Ct., who came up in an extra train, "On the subject of the construction of and returned home after the close of the

Gov. Lincoln was called to the chair, and man, of Burlington, Vt., who is probably John Milton Earle, Esq., was appointed seada east than any other man in New Eng- made a few brief but pertinent remarks on the importance of the contemplated road to "'The project of connecting Montreal the prosperity of the town of Worcester,

Gov. Davis then presented the whole subtimes gain favor for the moment, but which ject to the consideration of the meeting, in when examined, suddenly vanish into thin a speech at once forcible in manner, and rebe run per day, they may as well be filled, air. I have never felt a moment's hesitation plete with facts and arguments, showing the on this subject. I have had considerable necessity for the road, its tendency to inacquaintance with Canada, residing at Mon- crease and facilitate the business of this treal from 1834 to 1841, and my business town, its importance to the northern section led me frequently into the country. I do of Worcester and Middlesex counties and not believe that all the business on the road, the important towns in the valley of the and light freight can afford to carry coarse during the winter months, would keep the Merrimac, and the reasonable certainty that track clear of ice and snow, and, during the the road can be built at a low rate of expenremainder of the season, that part of the old diture, and will be profitable to the stock-

There has been no instance, we believe, in the progress of the internal improvements of the country in which so many difficulties were thrown in the way of a great work, as have been made to obstruct rily tested and decided. The mention made the path of the Baltimore and Ohio Rail- of it by the board of trade in two separate with intense anxiety, not only as effecting road Company. Virginia and Pennsylva-nia have contributed their opposition; and the public and parliament. The first allu-tion of many operations suspended in the in-tion of many operations suspended in the in-tion of many operations suspended in the inretarding the enterprise.

the work is destined to advance. Under circumstances less promising than those which now surround the company, the acquent trains and low fares." In the same and Brighton (Dorking branch)—and South tivity and sagacious management of the report they said, that in a mechanical point Eastern (Reigate and Dorking branch)-

nication East and West.

territory of the State, says :-

and from Columbia to Carlisle."

#### THE ATMOSPHERIC SYSTEM.

rass a work which must go through the territory of one or the other of these States,
or of both, the Commonwealth of Maryland interest in the progress of an experiment, lines, in connection with the metropolis, rehas joined in the business of delaying and where success has hitherto been sufficient to commended the postponement, till the expetarding the enterprise. induce eminent authorities to entertain strong riment of the atmospheric railway from Lon-Through all these difficulties, however, hopes that the result may be an acceleration don to Epsom shall have been put in execuable President of the Board accomplished of view, the experiment at Dalkey might be adding, "if the atmospheric system of prothe construction of the line from Harper's considered as "conclusive of the success of pulsion should prove successful and deserv-Ferry to Cumberland.

The chief obstacle which now prevents the continuance of the road, is the unwillingness of Virginia to grant a right of way through her territory upon terms at all practicable, without great sacrifice. This refusal, however, is so unjurious and unjust to a large portion of her own citizens, that it can hardly be persisted in. We publish in this morning's paper, the proceedings of a considered as "conclusive of the success of the success of the success of the atmospheric system," and that it demonstrated "that trains may be propelled by means of it at high velocities, with safety and convenience to the public;" and that "the same result may be obtained when the separate consecutive portions of line are multiplied indefinitely." But then, they added, that "in a practical and commercial should prove successful and deserving of further adoption, it would seem to be better suited than the locomotive system of traction to the nature of this section of country. The whole question of railway communication with Dorking may be temporatively. The whole question of railway communication of line are multiplied indefinitely." But then, they added, that "in a practical and commercial point of view," viz: that of expense, "they would appear to be the best adapted for supthis morning's paper, the proceedings of a cannot yet assume, in forming a judgment would appear to be the best adapted for supmeeting at Parkersburg on this subject. upon competing schemes, the success of the plying the wants of Dorking and its vicini-The whole of Northern and North-Western atmospheric system, and they, therefore, ty, without incurring the expense of making Virginia is outraged at the course of the come to the conclusion, that they must come so many additional miles of railway." The Legislature in driving from them so import-ant a work, which would form their avenue rations as to the atmospheric system." The coupled with the report of the select comto market, and afford the means of commu- patentees, feeling aggrieved at this qualified mittee, which was granted by the house of cation East and West.

In the Legislature of Pennsylvania, might prove as injurious as more decided of great private claims, vast corporate intewhere a similar application for the privilege hostility, petitioned parliament for the ap-rests, and national considerations of no inof way is pending, there are many interests pointment of a select committee to enquire significant importance.—Mining Journal. at work to defeat it. The Philadelphia into the merits of the system. The discus papers are calling for a continuous railroad sion that was elicited by this application from Pittsburgh to Philadelphia; they do must have been important and highly grati-not like the idea that Pittsburgh and Balti-fying to the inventors. Lord Howick stated (page 80) we referred to the preference given more are to be connected in that way, that he believed the atmospheric system as in Liverpool to iron vessels, and the great The Philadelphia North American, after ex-pressing the hope that the Baltimore and roads were to the old turnpike roads. This prior to the end of the present year; since Ohio road will not be allowed to go into the language is strong; but scarcely more so then, we are informed that at Walker, near rritory of the State, says:—
"It is now conceded on all sides, that it —"Let it be understood (said Sir R. Peel) in hand fifteen iron sailing vessels; that is is indispensable that Pennsylvania should that my impressions are strongly in favor of certainly a wholesale way of introducing construct a continuous railroad from our the atmospheric system." This coming this material for ship building, and is strong city to Pittsburgh; it must be done ulti-from such an influential source will not be presumptive evidence of the justness of our mately, though we are not prepared to say without its effect; and should the experi-anticipations; our only surprise is, that iron that the present is the proper time. We ments now in anticipation succeed, the prin-ships have so long remained in almost statu must follow the example of New York, and ciple, supported as it will be by government, quo since their first introduction—possessing have one great thoroughfare—a back-bone will remain no longer in abeyance. Those for our travel continuous and direct. If the practical experiments, too, are first progressing to completion. The works on the few of them. sponsibility, let individual corporations be Croydon and Epsom line are in a consider- 1. There being no limits to the size of allowed to parcel it out, as has been previ- able state of advance, and it is anticipated iron vessels, as there is to wooden ones, on ously done from Lancaster to Harrisburg, that operations will be commenced on the account of the want of sufficient size of 1st of May. It is intended in the first in-timber to construct the latter.

marks, Judge Merrick introduced a series of | The affinities of Pittsburgh are with Bal-|stance, to open only five miles of the railresolutions in favor of the road, which were adopted by the meeting and ordered to be published. It was near ten o'clock when the meeting was dissolved.—Wor. Pal.

The aminutes of Thisburgh are with Ballance, to open only live lines of the fail way, commencing at the Darmouth Arms, and terminating at Croydon; although the whole length of the line, when completed, in both States is at variance with the inter-THE EXTENSION OF OUR RAILROAD TO THE tively.—Baltimore American.

ests of large portions of their people respectively.—Baltimore American.

so that the government and the public may so that the government and the public may have as early an opportunity as possible of judging the efficiency of the system. At The interest in the issue of this discovery other sections of the line, the greater portion

#### ON IRON SHIPS.

2. They draw and displace less water, on account of the difference of weight-iron known, the unfounded prejudice against iron believe the generality of them are sufficiships being, on an average, only about 7-16, or less than half the weight of wooden ones.

3. They have much more stability than wooden vessels of the same model, on account of the cargo, or ballast, getting much look forward to a very fertile demand for his France; true, there may be a few "black nearer the water, or further below the centre manufacture from the marine of the country. sheep." Amongst others, we notice that of gravity and motion, in iron vessels; the difference of thickness of the materials between the water and cargo being, in iron vessels, about one-tenth the dimensions necessary for wooden ones.

4. They sail much faster, as it is well as-

the properties of being more flexible than varied phases .- Mining Journal. slight wooden ships, and stronger than stiff

ones.

air tight decks, are perfect life boats.

of course remedied.

7. They will last for a much longer period, if we may judge from examples now visible.

cording to their tonnage, than wooden vessels, as the difference of the timbers and the The guarantee is further, a most efficient ment may be appended, showing the operatwo skins of a wooden vessel, on the sides means of ensuring the best exertions of the tions of the company, as nearly up to the say a nominal 300 tons ship, to carry 500, failure, they are aware that they, and not and wooden vessels, of the same builders di- want of management, or extravagance. mensions; and a great saving is likewise This arrangement, to our minds, is much above period have been as follows: effected as regards expense of working the more equitable and salutary than the sys-

vessel, harbor dues and lights.

9. Iron vessels have the property of decreasing in price per ton as they increase in pockets of the promoters, who are held free dimensions, whereas wooden ships increase from participation in their own mismanagein exactly the opposite ratio. A twelve- ment or extravagance; the shareholders are years A 1 ship, of 200 tons, builders' mea. left to pay the piper. Now, is it not by far surement, would be about the same expense more just that those who incur and have the as an iron vessel of like dimensions, only control of expense should be responsible for the iron vessel would carry one-third more it? In general, there is not a more extrabesides the additional stowage, and easy draught of water.

ship or cargo at as low a figure (if not in had to pay, and had not the power to say a many cases lower) than can be done upon word against it, that many thousands of a first class wooden vessel under like cir- pounds would have been saved. cumstances.

tion from the worm or dry rot-those two unlimited one adopted in England. Of dangerous diseases incidental to wooden vessels; and, by attention, the bottoms of iron upon the respectability of the committee, ships can be kept perfectly clean.

lies in the material alone-the labor being the line from Paris to Lyons. No doubt the but a small part of the expense; but in iron prize is well worth the competition. Of built vessels the labor constitutes nearly the these four, Laffitte's and Gauneron's stand whole of the outly, for from the first mining first in respectability and influence; the of the ore and fuel, to the finishing of the other two, the Great Paris and Lyons, and certained that flexible and slight wooden last rivet in the fabric, it is but a succession and Calon's, are not in such estimation. It vessels sail fastest, and vice versa regarding of manual labor, which is represented by the is well known that in France, as was in a strong and stiff ones. Now, iron ships have payment of wages, through its many and measure the case in England, when rail-

#### FRENCH RAILWAYS.

constructed, with water tight bulkheads and anything having the name of French attach. schemes are for important main trunk lines, ed to it with ravenous eagerness. We are 6. They can be more easily repaired, as not at all surprised at this. The guarantee tern, Grand Junction, etc.—Herapath. the only damage they can receive must be system is of itself a sufficient cause. The local, and, from the manner of their con- fact that the deposit money is guaranteed CENTRAL RAILROAD. -ENGINEER'S REPORT. struction, the injury can always be seen, and to be returned in full, tempts the public to sign for shares in an undertaking, in which, of the stockholders of this company being in case of failure, no deduction whatever is at hand, I submit to you the following remade for expenses. Nor do we think that port of the operations of the road for the afloat, that have been for years in the water herein the public taste is misdirected. For last year, and its condition at this time. in all climates, and not the least decay being if there be a respectable Committee to deal 8. They carry a much larger cargo, ac- be certain that they will not suffer by the was deemed proper to delay the report to the misfortune of misconduct of the promoters. present time, that a supplementary stateand bottom, is rendered available for cargo; promoters to obtain success, as well as to period of the convention of the stockholders hence the saving in original cost, by having, exercise due economy; as in the event of as possible. which is about the difference between iron the shareholders will be the sufferers for ted during the year, 77,437. tem in England. For here, the greater the extravagance, usually, the better for the cargo at the same draught of water; but an vagant set of fellows on earth than projeciron vessel, of 1000 tons o. m., would only tors. What can be more wholesome than cost one-half the price of a like wooden one, to place some kind of restraint upon them? It is a benefit to themselves. We have no doubt that if the same guarantee system had 10. They are, when properly constructed, been adopted here in a case or two that ocmuch stronger, and can be grounded, or curred last session, wherein enormous sums beached, in any quarter, with perfect safety. were spent in "preliminary expenses" for 11. Insurance can be effected upon either abortive schemes, which the shareholders Incidental expenses—printing

We confess, for these reasons, we rather 12. They require no coppering or protect prefer the French guarantee system to the Earnings of the road for the or body of promoters. Of the numerous Profits,

From these qualities becoming daily better Companies set on foot for French lines, we vessels must soon fall to the ground, and even ently respectable to be to be enabled to meet when the present unprecedented stimulus in the guarantee, in case of need. Some of the iron market, from railway speculations, the Companies are composed of men of the shall have ceased, the ironmaster may then highest respectability both in England and In wooden built vessels the principal cost there are no less than FOUR companies for ways first appeared, everything goes by interest and influence.

Another reason that leads us to approve 5. They are safer than wooden vessels, as they are fire-proof, and, when properly in French projects. The public snatch at French railways is, that there nearly all the constructed, with water tight bulkheads and equivalent to our Birmingham, Great Wes. sic lig up an

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e

The period of another annual convention

The fiscal year of the company termiwith, it is a great safegard for the public, to nates with the month of November, but it

Total number of bales of cotton transpor-

The expenses of working the road for the

Maintenance of way-including all repairs and materials for repairs of road, depots, turn outs, wells, cisterns,

bridges, etc., - . laintenance of motive power and cars-including all materials used in repairs of engines and cars, all labor for the same, wages of enginemen, firemen, oil, tallow,

fuel, water, etc., . ransportation expenses-including depot expenses, wages of conductors and train hands salaries of agents and clerks, insurance on cotton, damage,

and stationery,

1,557 61 - \$147,719 52

44,554 44

\$66,273 04

35,344 43

Total, RECAPITULATION.

year ending Nov. 30, 1844, \$328,424 01

. \$180,704 49

The earnings for the four months ending | April 1st, 1845, have been \$142,337 92.

The distance run by the trains during the year, is as follows:

- 119,556 miles. Passenger trains, -91,298 Freight

Total, - 210,854 In performing this distance, 3,605 cords of wood have been consumed, which is one now as at any former period. cord for every 50 miles run.

The amount of tonnage transported dur-

It must be borne in mind, that for a conlight in one direction. In the fall, when the up-freight greatly exceeds the downward, the average duration of pine string pieces at five per cent, and I am satisfied that will be found sufficient. The cost, thus far, has The reverse is the case a few months later, irregularity will gradually cease, and that last at least ten years. the freighting business will, after a time, be Then 1, or 16,250 cross ties per more equally distributed throughout the year. Other articles of transportation, such | , or 2,050,000 feet (b.m.) string as lumber, staves, fuel, etcr, will seek this channel, and afford freight for the down 4, or 150,000 feet (b.m.) ribbon, trains in the summer and fall, when other freight is dull.

The cost of working the road and maintaining it during the last year, including all Spikes,

expenses, has been as follows:

Cents. For maintenance of way per mile run, 31.4 For maintenance of mo. power and cars, 16.7 For transportation expenses, -- 21.1 For contingencies, 0.8 - 70.0

The depot grounds at either end of the Salaries of superintendent and road, were considered amply sufficient for any business that might offer, but the experience of the past year has shown that they must be extended-particularly the cotton ing the approaching summer.

supply the place of any engine that may be sand dollars per annum.

disabled on the road.

wheels.

business.

dry in this city, and fit them up in our own of the duration of railroad iron, are extremeshops; by this course we get a more perfect ly variant, and the system has not been in article, and at no greater cost than to order operation a sufficient time in this country, from the north. We have not had an in- to afford data for an exact estimate. stance of the failure of the wheels and axles

ing the year is equal to 1,056,128 tons haul- ifest, in the regularity with which the trains transporting material for the heavy embankperform their trips.

siderable part of the year, the trains go very enable us to make a fair estimate of the an and other portions of the iron, wdich have

assistant,

There is in the whole road about 130,000 not been one-tenth of that sum. when the up-freight falls off, and cotton cross ties: 12,300,000 feet (board measure)

annum, at 25 cents, -12,300 00 1,800 00 at \$12 per M, Repairs of trestle work and bridges, 8,000 00 2,000 00 22,500 00 Deterioration of iron -Repairs of wells, pumps, cisterns, turnouts, depots, turn tables, and contingencies, say Thirty gangs of laborers, of six each gang, including overseers and supervisors, at \$110 per 39,600 00 gang per month

Total. -\$100,000 00 An average of about \$526 per mile per ditions to them during the present year, and has been \$348—about two-thirds of the tion was passed: a purchase of ground for this purpose has above sum. As the cross ties and string Resolved, as the opinion of this conven-already been made. The want of a suita- pieces of the western part of the road, are ble passenger house at the Savannah depot as yet not much decayed, and most of the has long been felt; a plan has been prepared bridges are sound, it will be some years beand it is proposed to erect the building dur- fore the cost of repairs will reach the maximum; but I am comfident that with the Railroad, and that, by the united energy A small engine house is also required at amount of business that may reasonably be and action of the people generally upon the the centre of the road, at which a spare pas-senger and freight engine may be kept to will not fall much short of one hundred thou-

1,750 00

It is not so easy to make an estimate of plished. gines, all in working order, except the rations of the road, as the maintenance of the machinery and the transportation except will be fitted up as a freight engine, with 8 penses, are governed in a great degree, by sapeak and Ohio Canal will be progressed.

We have all of our wheels cast at a foun-| The opinions of engineers on the subject

There are about 8,000 tons of iron on our fitted up by our own workmen.

The condition of the road is much imof five years. On the eastern part of the proved since my last report, and is as good road, near this city, several miles have been in use eight years; and during the first year The good policy of keeping an efficient and a half of the time, bore the transit of force on the repairs, is more and more man- twelve trains per day in each direction, ment adjoining the city, and I cannot per-We have now had sufficient experience to ceive any difference in the condition of this,

I intimated in my last report the intention presses forward; and there is a short period of string pieces, and 600,000 feet (board of substituting embankments for a conside-in the summer that there is very little freight measure) of ribbon. We now renew the in either direction. It is presumed that this cross ties with cypress, which, I think, will line. We have commenced this operation at the long trestle work near the 100 mile station, and it will be continued on a mode-\$4,062 50 rate scale during the year.

I am, very respectfully, your ob't serv't. L. O. REYNOLDS, Chief Engineer.

Railroad Meeting.—A meeting of the ci-tizens of Sullivan county, New-Hampshire, and of Windham and Windsor in Vermont, friendly to the extension of the Cheshire Railroad, from Bellows Falls up the valley of the Connecticut, as far as Charlestown, and thence to the mouth of White River, if 7,987 50 deemed expedient, to be holden at Charlestown, N. H., is called on Saturday next. -Boston Courier.

Hampshire and Franklin Railroad .- A meeting of the friends of a railroad on the east side of the Connecticut River, south of Miller's River, met at Amherst on the first inst. It was voted to organize a company under the charter just obtained, and committees were chosen to procure subscripyards. It is in contemplation to make ad- annum. The expense during the past year tions to the stock. The following resolu-

> good of the Connecticut Valley, and of other portions of the Commonwealth, require the construction of the Hampshire and Franklin east side of the Connecticut River, the project can and will be successfully accom-

penses, are governed in a great degree, by sapeak and Ohio Canal will be procured, the amount of business done. I am confi-An order has been given for four more; dent, however, that with a business that our number will then be twenty. Eleven for freight and nine for passengers.

We now have one hundred and fifty, eight wheel freight cars, and intend increasing the number to two hundred for the next season's will at no distant period, exceed that amount. To effect this purpose, every exertion is being made, and Col. Coal is now on at the north to make the necessary investigations relative to the disposition of the bonds, &c. When the tonnage is ensured, of course there no loss to the State.—Fred. Herald. THE IRON TRADE.

the manufacture of iron assumed any degree ones, be greatly increased, from the improveof importance in this country, in which the ments that are taking place in agricultural prospects of long continued prosperity in machinery. If to these circumstances be this great branch of our staple trade, are added the extra demands for an increasing based on such certain anticipations as at the present moment. The years of high prices, and consequent prosperity were 1817, 1818, 1825 and 1836, in which the prices of pig iron were upon an average 9l. 13l. and 7l. 10s., respectively; but the uses to which iron was put at those periods, do not appear article will soon have the effect of increasto have borne out a sufficient cause for the ing the production of that commodity. This the suspension of many great public works. great advances in price which were then in most cases is true; but it will not fully, It is possible that from the exertions of our obtained. Until 1836, railways, for which so many thousands of tons are required, ply to iron, for the erection of new furnaces duced than 1,330,000 tons, but it cannot be were almost unknown in this or any other and machinery, the sinking of new coal materially greater than what has been comcountry, and the many uses to which it is mines, and the forming of railways to bring puted. Under any circumstances however, applied, were either little understood or very sparingly adopted. Thus fire proof build- required, involve so large a quantity of iron, more prosperous, and that its present flourings, and the general introduction of iron as to render it even scarcer for the time. ishing state is not only certain of being perinto both public edifices and private houses Another cause which tends to diminish the manent for some years, but more likely to and mansions, which carry off so large a quantity of our present supply, were little known a few years ago; but the great fea. ture at present is the employment of iron in will work six days a week when he earns ship building—that is, constructing both steam and sailing vessels entirely of iron.

On a careful examination, the building of demand for labor in the forming of the new iron vessels does not appear likely to be a temporary retire. temporary nature, from the following facts ing, will also draw from the iron districts a which came under the writer's own observa-large amount of population, which would tion. Seven years ago, four sailing vessels otherwise have been employed in the kinwere built for the company trading from an out port to London. Three of them were It may be a matter out port to London. Three of them were It may be a matter of some interest in built of wood, and one was constructed of the present state of the iron trade, to attempt iron. At the dissolution of the company to reduce to figures the amount of iron likelast year, these vessels were sold—the three ly to be made and consumed in the present last year, these vessels were sold—the three wooden ones bringing one-half of their original cost, while the iron one was found to have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so have suffered so little, and to have cost so little so l small a sum in repairs, that she was sold for Pig iron produced in England and very nearly the precise sum of her first cost.

Wales in 1844, These facts, among many others of a simi- Iron produced in Scotland in 1844, lar character, give such a character to iron vessels, and are beginning to be so well understood and appreciated, that there is hardly an iron ship building yard in the kingdom that is not fully employed, and where inquiries for iron vessels are not daily being made, and they justify our opinion, that within a few years there will be no vessels constructed of any other material. Government seems so fully convinced of their superiority over timber frigates, that many are now being constructed of iron in London, 1000 miles of railway require for Liverpool, Birkenhead, and Glasgow, for public service, and the late increase in the Add loss in manufacture, 5 pr ct., navy estimates, seems to point out still fur. Iron required for railways in prother additions to our war steam vessels. The cotton trade, under ordinary circumstances, takes about one-sixth of the iron made in this country annually in machinery, arising from the ordinary wear and tear of steam engines, boilers, new mills, and the substitution of new and improved looms, etc., for the old. But the number of new mills at present in course of erection exceeds any former period; and of course, must increase Export in 1844, 460,000 tonsthe average quantity of iron to be consumed in this branch of our trade. Agriculture

also requires considerable supplies, which There never was, perhaps, a period, since must this year, and for many succeeding

It has been urged, that high prices of any

It may be a matter of some interest in

Total tons for Gt. Britain, 1844, 1,210,000

Estimated consumption for 1845.

2000 miles of railways to be made in 1845 and I846-say half in 1845 contracted for-000 miles of railway, 250 tons per mile for rails, Add for loss of one-fifth, in converting pig iron to rails,

chairs, gress, and passed in 1844, ron for wagons, stations, engines,

tanks, etc., computed from inspection of railway companies accounts, that each mile of railway requires 300 tons per mile above the weight of permanent rails and chairs-1000 miles will then give,

say, from the increase of railways abroad, and the remission

of duties on iron by some of the continental states, it will be eneral consumption of iron in Great Britain (exclusive of railways,) in bar iron, castings, water and gas pipes, in steam-engines, and the whole hardware of the country, -

480,000

500,000

Total tons, - 1,803,500

If this statement, in any way, is near the truth, we shall have a deficiency of nearly 500,000 tons of iron, which must cause

The rail chairs for the Newcastle and Berwick Railway, amounting to 27,000 tons, have been contracted for at 121. per ton the former and 71. the latter.

RAILROAD IRON AND FIXTURES. THE Subscribers are ready to execute orders for the above, or to contract therefor, at a fixed price, delivered in the United States.

DAVIS, BROOKS & CO., 21 Broad st., N. York. ia45

NICOLL'S PATENT SAFETY SWITCH for Railroad Turnouts. This invention, for some time in successful operation on one of the prin-

them.

1 is in ever touched by passing trains, except when in use, preventing their running off the track. It is simple in its construction and operation, requiring only two Castings and two Rails; the latter, even if much worn or used, not objectionable.

Working Models of the Safety Switch may be seen at Messrs. Davenport and Bridges, Cambridgeport, Mass., and at the office of the Railroad Journal, New York.

Plans Specifications and all information obtained

Plans, Specifications, and all information obtained on application to the Subscriber, Inventor, and Patentee.

G. A. NICOLLS, ja45 Reading, Pa.

250,000 EORGE VAIL & CO., SPEEDWELL IRON
T Works, Morristown, Morris Co., N. J.—Manufacturers of Railroad Machinery; Wrought Iron
Tires, made from the best iron, either hammered or
rolled, from 14 in. to 24 in thick.—bored and turned
outside if required. Railroad Companies wishing
to order, will please give the exact inside diameter,
or circumference, to which they wish the Tires
made, and they may rely upon being served according to order, and also punctually, as a large quantity
of the straight bar is kept constantly on hand.—
Crank Axles, made from the best refined iron;
Straight Axles, for Outside Connection Engines;
Wro't. Iron Engine and Truck Frames; Railroad
Jack Screws; Railroad Pumping and Sawing Ma-50,000 70,000 3,500 150,000 Jack Screws; Railroad Pumping and Sawing Machines, to be driven by the Locomotive; Stationary Steam Engines; Wro't. Iron work for Steamboats, and Shafting of any size; Grist Mill, Saw Mill and Paper Mill Machinery; Mill Gearing and Mill Wright work of all kinds; Steam Saw Mills of simple and construction, and wary effective. 300,000 ple and economical construction, and very effective Iron and Brass Castings of all descriptions.

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For 9 Son

Nev Nev Eliz Rah Nev

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# NEW JERSEY RAILROAD AND TRANSPORTATION COMPANY.

Length of Road, 33 96-100 miles. JOHN S. DARCY, Esq., President. J. P. JACKSON, Esq., Secretary.

Capital, \$2,000,000.
ROBERT SCHUYLER, Esq., Vice President.
J. WORTHINGTON, Esq., Treasurer.

Leave New York, foot of	DAILY	SUNDAY.		
Courtland street,	A. M.	P. M.	A. M.	P. M.
For Newark	9, 11, 12,	2, 3, 43-4, 6, 71-2	9	43-4
" Elizabethtown	9, 11	2, 3, 43-4, 6	*****	
" Rahway	9, 11	3, 43-4, 6		*****
" New Brunswick	9	3, 43-4	*****	*****
Leave New Brunswick	6, 71-2, 111-2	8 3-4	11 1-2	81-2
Rahway				
Elizabethtown ? .	7, 71-2, 81-2, 101-2, 12	3 1-2, 5	22.47	200
Newark	71-2, 81-4, 9, 11	11-2, 4, 51-2, 7, 93-4	11 3-4	93-4
For New York.				IN to

9 A. M. and 3 P. M. to meet the Morris and Essex trains, and 9 A. M. and 4 3-4 P. M. to meet the Somerville train, and for Philadelphia.

#### TABLE OF DISTANCES AND FARES.

	New	York.	New	vark.	Elizabet	thtown.	Rah	way.	N. Bru	nswick
topics of a section	Miles.	Cents.	Miles.	Cents.	Miles.	Cents.	Miles.	Cents.	Miles.	Cents.
New York			91-4	25	14 1-2	31 1-4	19 3-4	31 1-4	31 1-2	50
Newark	91-4	25			5 1-2	12 1-2	10 1-2	25	22 1-2	50
Elizabethtown	14 1-2	31 1-4	5 1-2	12 1.2		1	5	12 1-2	16 3-4	50
Rahway	19 3-4	31 1-4	10 1-2	95	5	19 1-9			11 3-4	37 1-2
New Brunswick	31 1-2	50	22 1-2	50	16 3-4	50	11 3-4	37 1-2		

## KITE'S PATENT SAFETY BEAM.

ESSES. EDITORS. MESSRS. EDITORS.—
As your Journal
is devoted to the benefit of the public in general I feel desirous to communicate to you for publication the following circumstance of no inconsiderable importance, which occurred some few days since on the Philadelphia, Wilmington and Baltimore railroad.

On the passage of the evening train of cars from Philadelphia to this city, an axle of our large 8 wheeled passenger car was broken, but from the particular plan of the construction, the accident was entirely unknown to any of the passen-gers, or, in fact, to the conductor himself, until the train, (as was supposed from some circumstances attending the case,) had passed several miles in advance of the place where the accident occurred, whereas had the car been constructed on the common plan the same kind of acci-

dent would unavoidably have much injured it, perhaps thrown the whole train off the track, and seriously injured, if not killed many of the passengers.

Wilmington, Del., Sept. 28, 1840.

Wilmington, Det., Sept. 25, 1640.

The undersigned takes pleasure in attesting of the value of Mr. Joseph S. Kite's invention of the Safety Beam Axle and Hub for railroad cars. They have for some time been applied to passenger cars on this road, and experience has tested that they fully accomplish the object intended. Several instances of the fracture of axles have occurred, and in such the cars have uniformly run the whole distance with entire safety. Had not this invention been with entire safety. Had not this invention been used, serious accidents must have occurred.

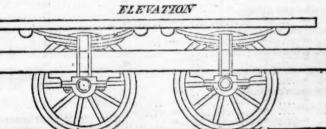
used, serious accidents must have occurred.

In short, we consider Mr. Kite's invention as completely successful in securing the safety of property and lives in railroad travelling, and should be used on all railroads in the country.

JOHN FRAZER, Agent,
GEORGE CRAIG, Superintendant,
W. L. ASHMEAD, Agent.

A model of the above improvement is to be seen at the New Jersey railroad and transportation office, No. 1 Hanover st., N. York.

TLAN Safet Bear Ream Safety



Section

R. CASEY, CIVIL ENGINEER, NO. 23 W. CASEY, CIVIL ENGINEER, NO. 23

Veys, estimates of cost and reports for railways, canals, roads, docks, wharves, dams and bridges of every description, with plans and specifications. He will also act as agent for the sale or purchase of machinery, and of patent rights for improvements relating to public works.

AN SHIELD

AMUEL NOTT, CIVIL ENGINEER, SURveyor and General Agent, Bangor, Me. Railroads, Common Roads, Canal, Factory and Mill
Sites Towns, Farms, Wild Land, etc., surveyed.
Plans and Estimates for Buildings, Bridges, etc., prepared, and all appertaining business executed.

- REFERENCES. Boston, Col. James F. Baldwin, Civil Engineer.
Col. J. M. Fessenden, " "
Wm. Parker, Esq., Engineer and Superintendent
Boston and Worcester railroad. ja45

PATENT HAMMERED RAILROAD, SHIP and Boat Spikes. The Albany Iron and Neil Works have always on hand, of their own manufacture, a large assortment of Railroad, Ship and Boat Spikes, from 2 to 12 inches in length, and of any form of head. From the excellence of the material always used in their manufacture, and their very general use for railroads and other purposes in this country, the manufacturers have no hesitation in warranting them fully equal to the best spikes in market, both as to quality and appearance. All orders addressed to the subscriber at the works, will be promptly executed. JOHN F. WINSLOW, Agent.

Albany Iron and Nail Works, Troy, N. Y.

The above spikes may be had at factory prices, of Erastus Corning & Co., Albany; Hart & Merritt, New York; J. H. Whitney, do.; E. J. Etting, Philadelphia; Wm. E. Coffin & Co., Boston.

MACHINE WORKS OF ROGERS, KETCH-um & Grosvenor, Patterson, N. J. The un-aersigned receive orders for the following articles, manufactured by them of the most superior descrip-tion in every particular. Their works beingerten-sive and the number of hands employed beinglarge, they are enabled to execute both large and small or-ders with promptness and despatch.

Railroad Work.

Railroad Work.

Locomotive steam engines and tenders; Driving and other locomotive wheels, axles, springs & flange tires; car wheels of cast iron, from a variety of patterns, and chills; car wheels of cast iron with wrought tires; axles of best American refined iron; springs; boxes and bolts for cars.

Cotton, Wool and Flax Machinery of all descriptions and of the most improved patterns, style and workmanship.

of all descriptions and of the most improved patterns, style and workmanship.

Mill gearing and Millwright work generally; hydraulic and other presses; press screws; callenders; lathes and tools of all kinds; iron and brass castings of all descriptions.

ROGERS, KETCHUM & GROSVENOR, a45

Paterson, N. J., or 60 Wall street, N. York.

PATENT RAILROAD, SHIP AND BOAT PATENT RAILROAD, SHIP AND BOAT Spikes. The Troy Iron and Nail Factory keeps constantly for sale a very extensive assortment of Wrought Spikes and Nails, from 3 to 10 inches, manufactured by the subscriber's Patent Machinery, which after five years' successful operation, and now almost universal use in the United States (as well as England, where the subscriber obtained a patent) are found superior to any ever offered in market.

Railroad commanies may be supplied with Sathrace.

Railroad companies may be supplied with Spikes having countersink heads suitable to holes in iron rails, to any amount and on short notice. Almost all the railroads now in progress in the United States are fastened with Spikes made at the above named factory—for which purpose they are found invalua-ble, as their adhesion is more than double any com-

mon spikes made by the hammer,
All orders directed to the Agent, Troy, N. York,

All orders directed to the Agent, Troy, N. York, will be punctually attended to.

HENRY BURDEN, Agent.

Spikes are kept for sale, at Factory Prices, by J. & J. Townsend, Albany, and the principal Iron merchants in Albany and Troy; J. I. Brower, 222 Water St., New York; A. M. Jones, Philadelphia; T. Janviers, Baltimore; Degrand & Smith, Boston.

** Railroad Companies would do well to forward their orders as early as practicable, as the subscriber is desirous of extending the manufacturing so as to keep pace with the daily increasing demand. ja45

# TRAVELLERS' RAILROAD DIRECTORY.

TRAINS LEAVE	FOR	BY RAILROAD	DAYS.	A. M.	P. M.	MILES.	FAR
Boston	Portland	Eastern,	Daily,	71, 2		106	\$3 00
"	Portsmouth		48	71, 2	1, 41,	54	2 0
#	Newburyport	2.4	*****	71, 2	1, 41,	35	1 2
16	Salem		"		1, 31, 41, 6,	14	5
"	Portland	Boston and Maine,		74,	<b>t</b> ,	109	3 0
ortland	Boston		******	74,	5,	26	7
Boston	Lowell	Boston and Lowell,		7, 11,	41 51	26	7
owell	Boston	Consend		74, 11,	, 4g, 0g,	76	20
oston	Concord	Concord,			4	76	20
oncord	Boston				3,	41	
oston	Nashua		Carre Co. To Section 1		1, 5,	41	
ashua	Boston	Boston and Worcester,	"	7 0	21,	44	12
oston	WorcesterBoston	Boston and Worcester,	44		3,	44	1 2
Vorcester	Boston	" "	Sundays,	7, 10,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		19-7-17
	Worcester	44 14	"	16			
oston	New York via Norwich		Mon., Wed. & Fri., Tues., Thur. & Sat., Daily,	4	Land be desired.		10000
oston	W T Island railroad	***** ** *** ****	Tues Thur & Sat.	7			
	" L. Island railroad " New Haven	" "	Daily	9 9	24		
	Albany	Western,	Daily,	9, 9	21	200	6 0
lbany	AlbanyBoston.	4	61	81, 1	1	200	6 0
pringfield	Destan and Albania		44	7,			
oston	New York via New Haven	"	46		21,		
harlestown	West Acton	Fitchburg,	46	8	. 41		
Vest Acton	Charlestown	4	"	74. 104	5	*****	
oston	New York, via Steamboat trains	Boston and Stonington	Tues Thur & Sat	4	14		
	· " "	Boston and Newport.	Mon., Wed. & Fri.,		11,		
"Luch to too!	Providence	Boston and Newport,	Daily,	74, 4	I,	41	1 5
rovidence	Boston.		"	On arrival of the		41	1 5
aunton	"	" "	- 11		1,	*****	
ew Bedford	Boston.		- 11	73	21		
oston	Dedham.	" "		81, 3	3, 61,		
edham	The second secon		******	7, 10, [	1,	*****	
ew York	Greenport Hicksville & intermediate places Greenport ""	Long Island,		74,		95	2 2
rooklyn	Hicksville & intermediate places	46	"	91,		26	5
H- 1	Greenport " "	"	Tues., Thur. & Sat.,	91,		95	2 2
	Hickeville (Saturd'y to Suffolk)	*******		4		26	50
reenport	Brooklyn, (Boston train)				l,	95	2 2
4.4.	(accommodation do.).	"	Mon., Wed. & Fri.,			95	2 2
licksville	intermediate places.		Daily,	7,		26	50
		Steamer,					5 0
		New York and Erie,		8, 3,		53	
Aiddletown	New York	" "		61,	34,	53 94	3 5
hiladelphia	Pottsville	Reading,		9,		94	3 5
ottsville	Philadelphia	******		0 11 10	2 44 6 7	94	2
lew York	Newark.	N. J. railroad and trans. co.,			3, 41, 0, 75,.	91	2
wewark	New York	[9 A. M. and 3 P. M., con-	Sundays,	9	12, 4, 32, 7, 34,	91	2
	Newark	nect with Morris Railroad.] [9 A. M. and 41 P. M., trains,	Sundays,		94,	91	2
lew York	Elizabethtown	connect with Somerville Rail-	Daily,	9, 11,	2, 31, 41, 6,	141	3
limb athtown		road.]	Dany,	7, 71, 81, 101, 12,	21 5	141	31
ew York	Rahway	N I railroad and trans co		9, 11,	3, 41, 6,	191	3
ahway	New York	" " "	a lawren		11, 91,	191	3
low Vowl	New Brunswick	44 44			3, 41,	311	5
ow Prunewick	New York	44 45			84	311	5
ti timswich	ii		Sundays,	114,	81,	311	5
lew York	New Brunswick		"	9	14	311	5
hiladelphia	New York	Camden and Amboy,	Daily,	7		91	3 0
lew York	Philadelphia	66 66	"	51		91	3 0
hiladelphia	Bristol	Philadelphia and Trenton,	"	A		30	7
ristol	Philadelphia		"		1,	30	7
hiladelphia	Baltimore	Philad. Wil. and Baltimore,	16	8,	4,	93	
altimore	Philadelphia	" "	"		8,	93	:::
	Washington	Baltimore and Washington,	# ,,,,,,		5, 111,	41	2 5
Vashington	Baltimore				51,	41	2 5
altimore	Cumberland and inter. places	Baltimore and Ohio,	******			*****	
44	Frederick " "	" "		0	4,		
umberland	Baltimore	" "	******	2420 0000000000000000000000000000000000			
Iancock	"	" "	"			*****	
dartinsburg	"	" "	66	111,	101		
larper's Ferry.			66		121,	*****	
rederick				0	٥,		
Disamile Best		61 64	Sundays,	8,	42	*****	••••
llicott's Mills.			Daily,		41,	*****	***
ichmond	Petersburg	Richmond and Petersburg,			14,	•••••	
etersburg	Richmond		46	51,	61	*****	
lbany	Schenectady	Mohawk and Hudson,		0	21	*****	
chenectady	Albany		66	9,	31,		
lbany	Saratoga	The state of the s		7	191 5	*****	
aratoga	Albany				121, 5,	*****	
roy	Saratoga	Troy and Saratoga,			31,	*****	
aratoga	Troy		"	71,		*****	
nburn	Rochester	Auburn and Rochester,	"	81,	9		
lochester	Auburn	Rochester and Buffalo,		8,		*****	1
A STATE OF THE PARTY OF THE PAR	Buffalo	Rochester and Bullato,			3,	*****	
suffalo	Rochester	Buffalo and Falls,	4	9		*****	
alls	Falls	Bullato and Falls,	"		11		
	Buffalo			454	14	*****	1
Buffalo	Albany	Albany and Buffalo					